

2919A #6

NAME:

6<sup>th</sup> Grade

you MUST  
show ALL  
work on  
all spirals

Convert the rates into unit rates.

- 1)  $\frac{1}{2}$  gallon of gas per  $\frac{1}{4}$  lawn mowed
- 2)  $2\frac{1}{3}$  pencils in  $\frac{1}{2}$  minute
- 3)  $\frac{1}{5}$  of a liter of paint to fill  $\frac{1}{4}$  of a paint sprayer
- 4)  $\frac{1}{8}$  of a gram per  $\frac{1}{6}$  of a lawn
- 5)  $\frac{1}{9}$  of a kilogram of chocolate per  $\frac{1}{8}$  of the school



Write the equation of the proportional relationship.  
 & complete the follow-up questions.

①

x	y
0	0
1	6
2	12
3	18
4	24

Equation: \_\_\_\_\_

- Find the missing pieces of the coordinate pairs:

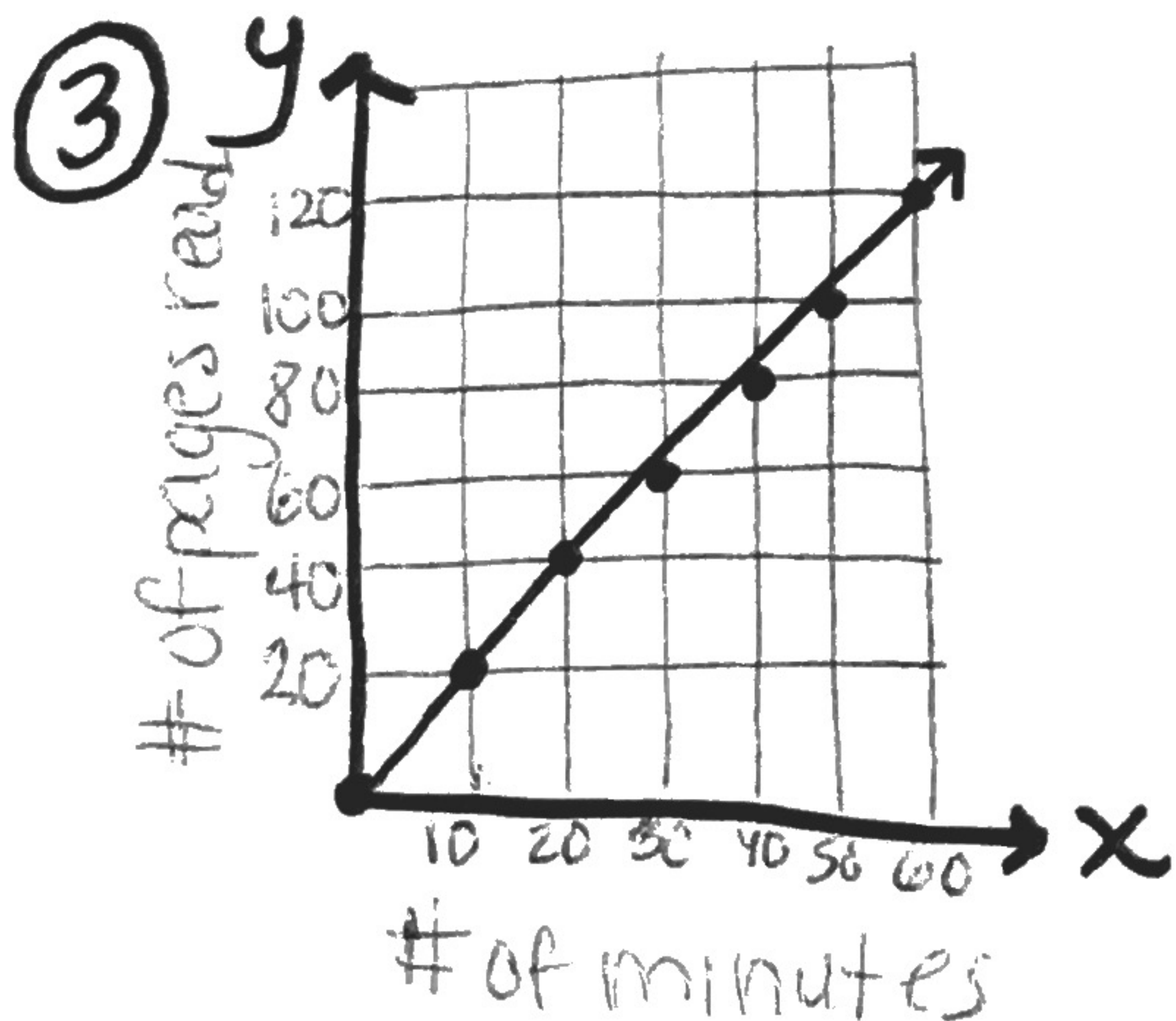
(8, ) ( , 72) (15, )

② For every lawn Jack mows, he earns \$8

Equation: \_\_\_\_\_

- How much would Jack make if he mows 12 lawns?

- How many lawns would Jack have to mow in order to make \$56?



Equation: \_\_\_\_\_

- How many pages would be read in 25 minutes?

- How many minutes would it take to read 90 pages?



# Proportional .... or not ?!

①

x	y
3	7
4	9
5	11
6	13

②

x	y
3	7.5
4	10
5	12.5
6	15

③

x	y
5	1
10	2
15	3
20	4

④ Mark gets \$9/hr to babysit.

⑤ Custom tees charges \$35 for setup & \$10/shirt.



⑩  $y = 6x$

⑩  $y = \frac{1}{4}x + 2$

Order the ratios from least to greatest.

A  $2:3$

B  $\frac{1}{4}$

C 3 to 5

D  $\frac{4}{3}$

E  $5:6$

least

—

—

—

—

greatest

Find the greatest common factor & Least Common Multiple.

① 9 and 22

②

16 and 48

GCF: \_\_\_\_\_

LCM: \_\_\_\_\_

GCF: \_\_\_\_\_

LCM: \_\_\_\_\_